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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/576,488	03/01/2007	Hyun-jae Lee	4366-061095	5414
	7590 03/27/200 <b>AW FIRM, P.C.</b>	EXAMINER		
700 KOPPERS	BUILDING	WILSON, GREGORY A		
436 SEVENTH PITTSBURGH	=		ART UNIT	PAPER NUMBER
			3749	
			MAIL DATE	DELIVERY MODE
			03/27/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/576,488	LEE ET AL.			
Office Action Summary	Examiner	Art Unit			
	Gregory A. Wilson	3749			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	l. lely filed the mailing date of this communication. (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on <u>21 Ag</u> This action is <b>FINAL</b> . 2b)⊠ This     Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) ☐ Claim(s) 1-8 is/are pending in the application.  4a) Of the above claim(s) is/are withdrav  5) ☐ Claim(s) 5-7 is/are allowed.  6) ☐ Claim(s) 1 and 8 is/are rejected.  7) ☐ Claim(s) 2-4 is/are objected to.  8) ☐ Claim(s) are subject to restriction and/or  Application Papers  9) ☐ The specification is objected to by the Examine 10) ☐ The drawing(s) filed on 21 April 2006 is/are: a)	r election requirement. r. □ accepted or b)⊠ objected to l				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11)☐ The oath or declaration is objected to by the Ex		• •			
Priority under 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 12/21/07.	4)  Interview Summary Paper No(s)/Mail Da 5)  Notice of Informal P 6)  Other:	te			

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### **DETAILED ACTION**

# **Drawings**

Figure 1 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

# Specification

The disclosure is objected to because of the following informalities:

On page 13, line 7, change "lager" to —larger--.

Appropriate correction is required.

# Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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Claims 1 and 8 are rejected under 35 U.S.C. 102(b) as being anticipated by Johnson et al (5,871,349). Johnson et al discloses a regenerative thermal oxidizer (10) to burn process gases and includes a reaction chamber (15) having a combustion unit (12) to burn the process gases, a heat exchanging part (13) placed to be in contact with the reaction chamber and having a plurality of sectors (17) for heat exchange of the process gases, a first duct (48) communicating with an outside through an upper portion of the regenerative thermal oxidizer while passing through the heat exchanging part (SEE Figure 2), a second duct (32, 34) provided on a lower end of the regenerative thermal oxidizer to supply or discharge process gases into or from the heat exchanging part, a cylindrical rotor (20) (ie: rotor shaped distribution system) provided under the heat exchanging part and includes an upper opening end (SEE Figure 1) on an upper surface of the cylindrical rotor which is in contact with the first duct (Figure 2), and a lower opening (SEE Figure 11) provided on a lower surface of the cylindrical rotor opposite to the upper opening, wherein the upper opening provides a first gas flow path to connect some of the sectors of the heat exchanging part to the outside of the regenerative thermal oxidizer through the first duct, and the lower opening provides a second gas flow path to connect other sectors of the heat exchanging part to the outside of the regenerative thermal oxidizer through the second duct (SEE flow paths of Figures 2 & 11), a plurality of partitioning plates (24) to define the sectors of the heat exchanging part to prevent the process gases passing through the first and second gas flow paths below the heat exchanging part from mixing with each other and a drive unit

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(SEE column 6, lines 13-29) coupled to a lower end of the cylindrical rotor to rotate the cylindrical rotor.

# Allowable Subject Matter

Claims 2-4 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

### Claims 5-7 are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gregory A. Wilson whose telephone number is (571)272-4882. The examiner can normally be reached on 7 am - 4:30 pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steve McAllister can be reached on (571) 272-6785. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Gregory A. Wilson/ Primary Examiner, Art Unit 3749 March 24, 2009